

101

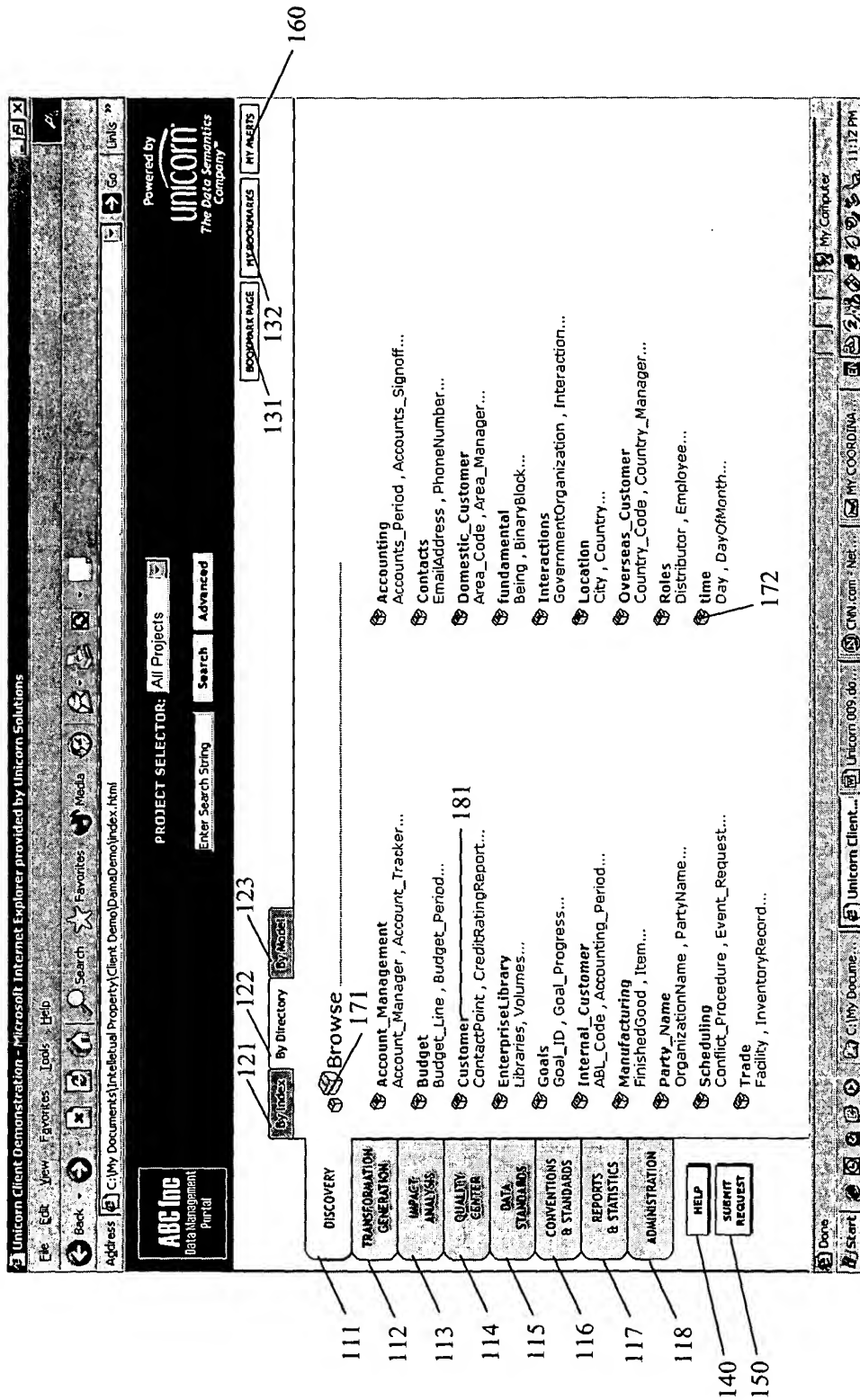


FIG. 1A

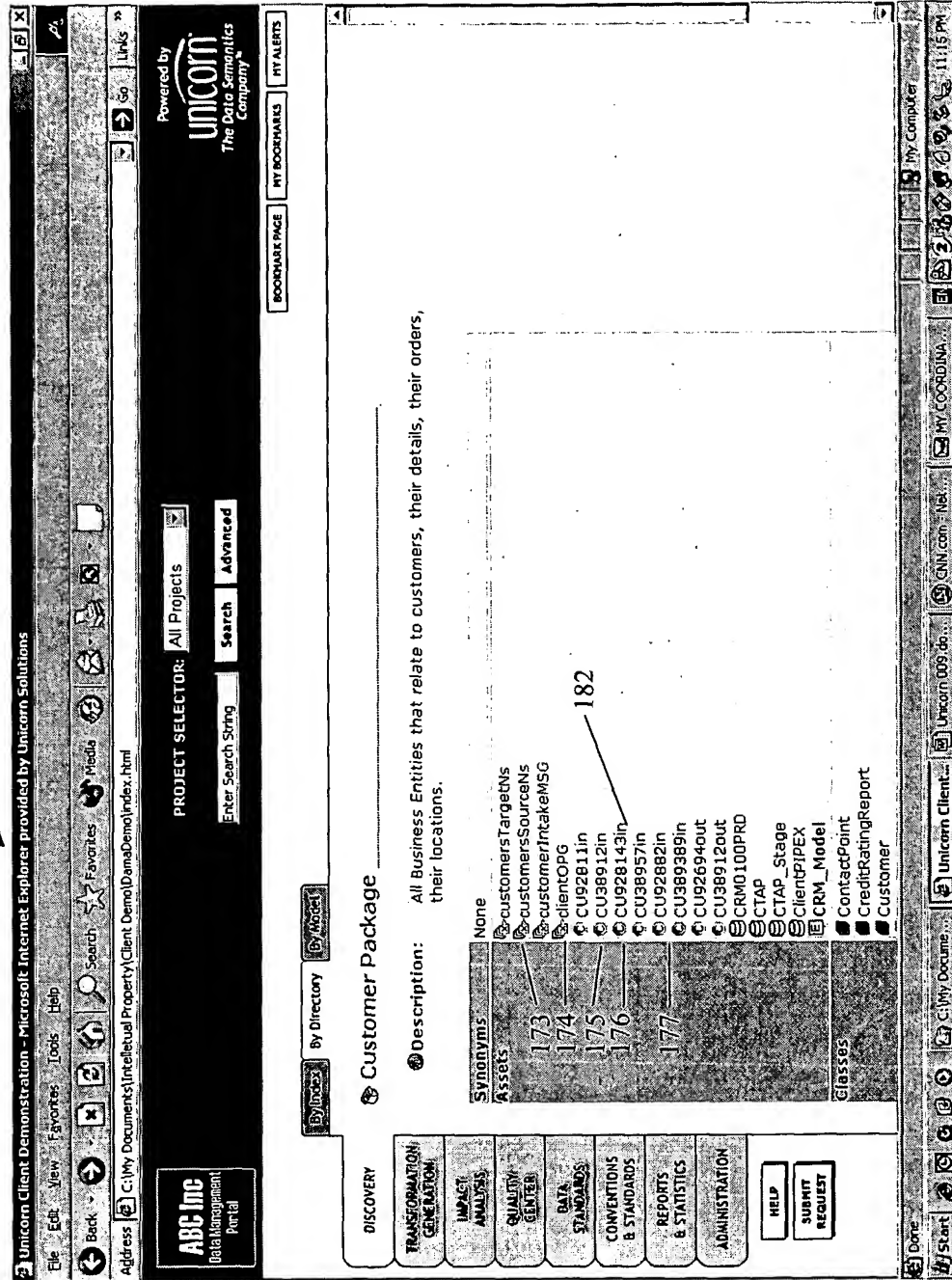


FIG. 1B

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By Index By Directory By Model

Discovery

Schema Name: CRM_Model

Description: ERwin logical model of Logis CRM system implemented for all customer groups.

Entities in this logical model:

- ☐ Businesscustomer
- ☐ Dtproperties
- ☒ Governmentcustomer
- ☐ Individualcustomer
- ☐ Militarycustomer
- ☐ Orders
- ☐ Shipping

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Descriptors

Related Web Service	CustomerYTDValue
Schema Revision Number	12
Vendor Name and Version	CA ERwin 4.0
Schema Owner	John L. Smith
Location	Pluto {10.10.213.54:5656} Build 5 Lab 6 North Carolina Campus
Related Data Model	None
Security Information	High
Applications Feeding	None
Applications Reading	None
Source Entity Relationship Diagram	CRM_Model
Initial Load Date	Jan. 9, 1998

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HELP
SUBMIT
REQUEST

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11:16 PM

FIG. 1C

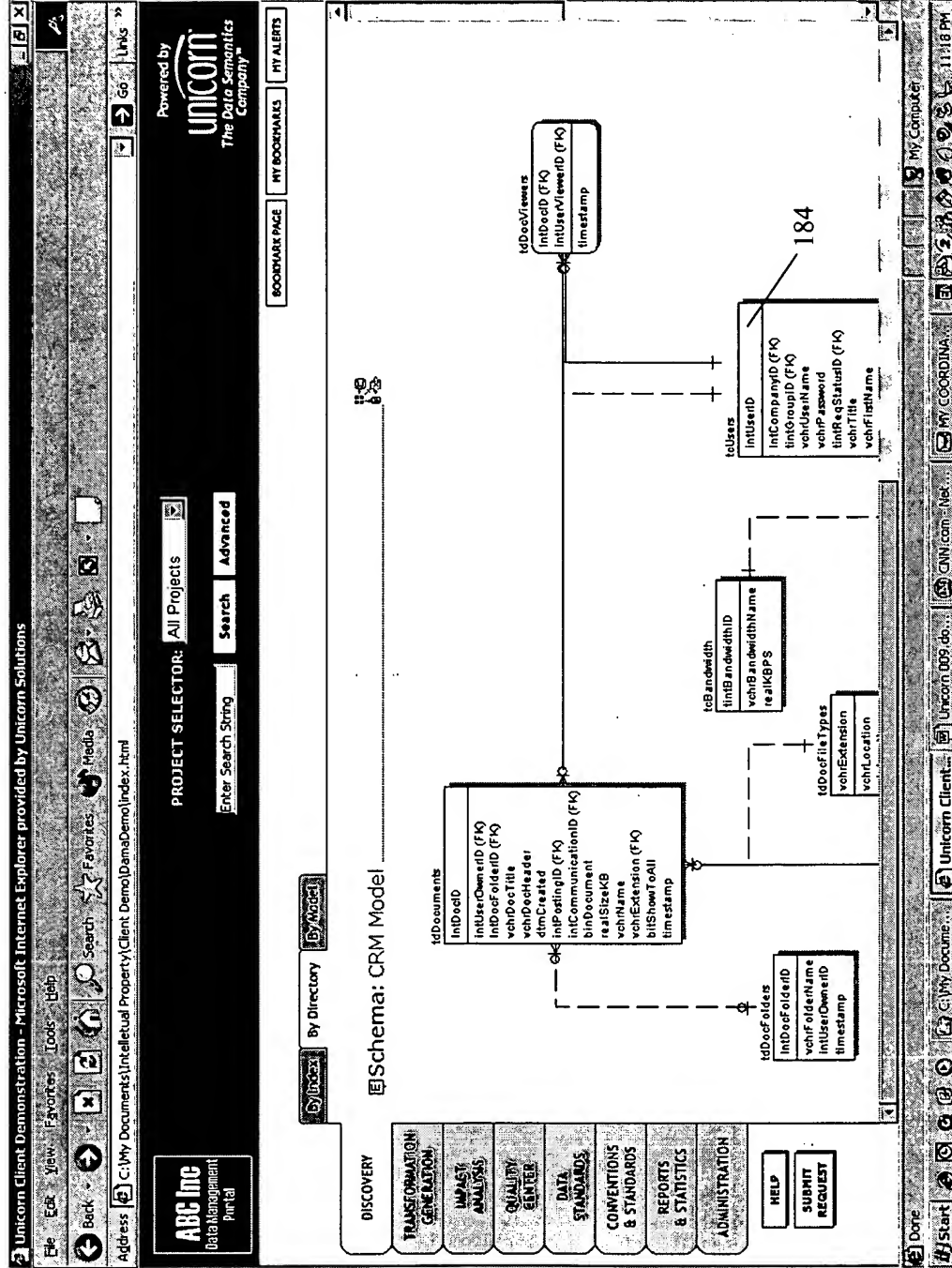


FIG. 1D

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By Directory By Model

Entity: Touters

Description: Customer Billing and Transaction Information

Attribute Name	Type	Primary Key	Allows Null	Business Meaning
timestamp	DateTime	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Mapped
vhcaddress1	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.address.businessComposedForm : [0..1](String)
vhcaddress2	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.address.businessComposedForm : [0..1](String)
vhcity	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.address.city.name : [0..1](String)
vhemail	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.contactPoints.composedForm@EmailAddress : Set[0..*](String)
vhfax	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Mapped
vhfirstname	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.names.firstName@PersonName : Set[1..*](String)
vhjobtitle	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.contactPerson.title : [0..1](String)
vhlastname	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.names.lastName@PersonName : Set[1..*](String)
vhpassword	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Mapped
vhphone	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.contactPerson.phoneNumber.nationalComposedForm : [0..1](String)
vhstate	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.contactPoints.state@PhysicalAddress.name : Set[0..*](String)
vhtitle	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Mapped
vhusername	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Mapped
vhzipcode	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IndividualCustomer.contactPoints.postalArea@PhysicalAddress.code : Set[0..*](String)

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DISCOVERY

TRANSFORMATION GENERATION

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CONVENTIONS & STANDARDS

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HELP

SUBMIT REQUEST

Done

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11:19 PM

FIG. 1E

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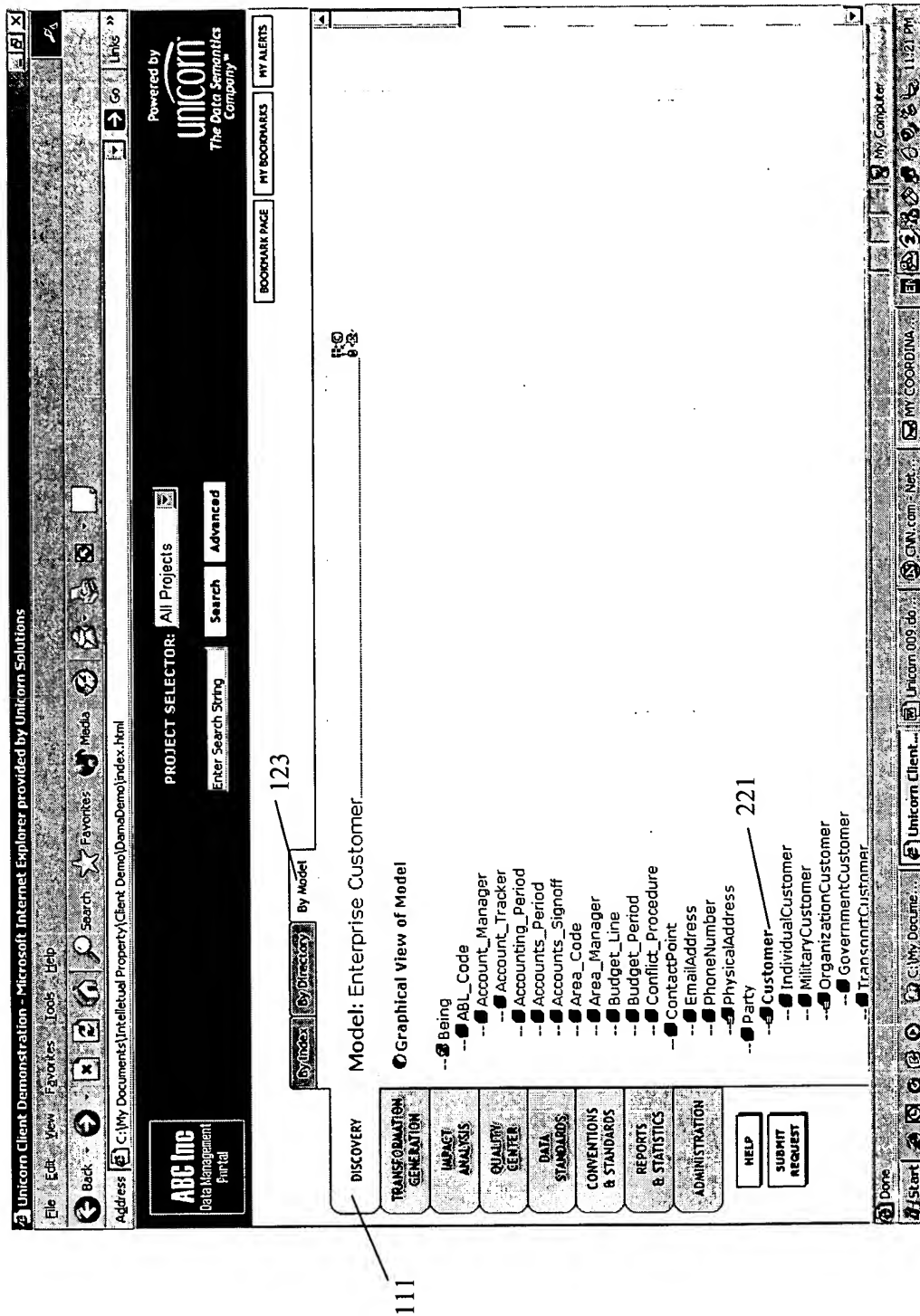


FIG. 2A

FIG. 2B

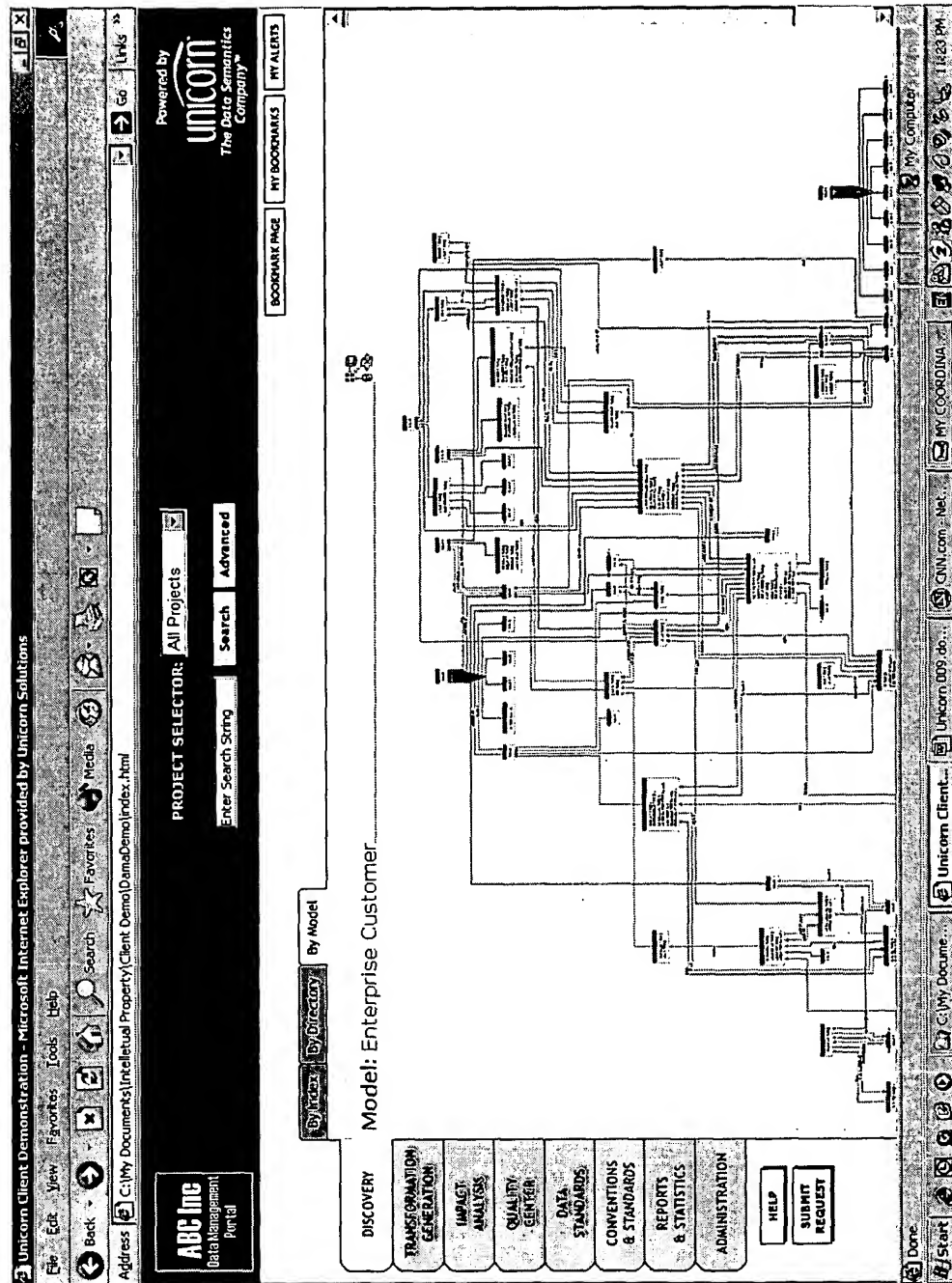


FIG. 2C

FIG. 2D

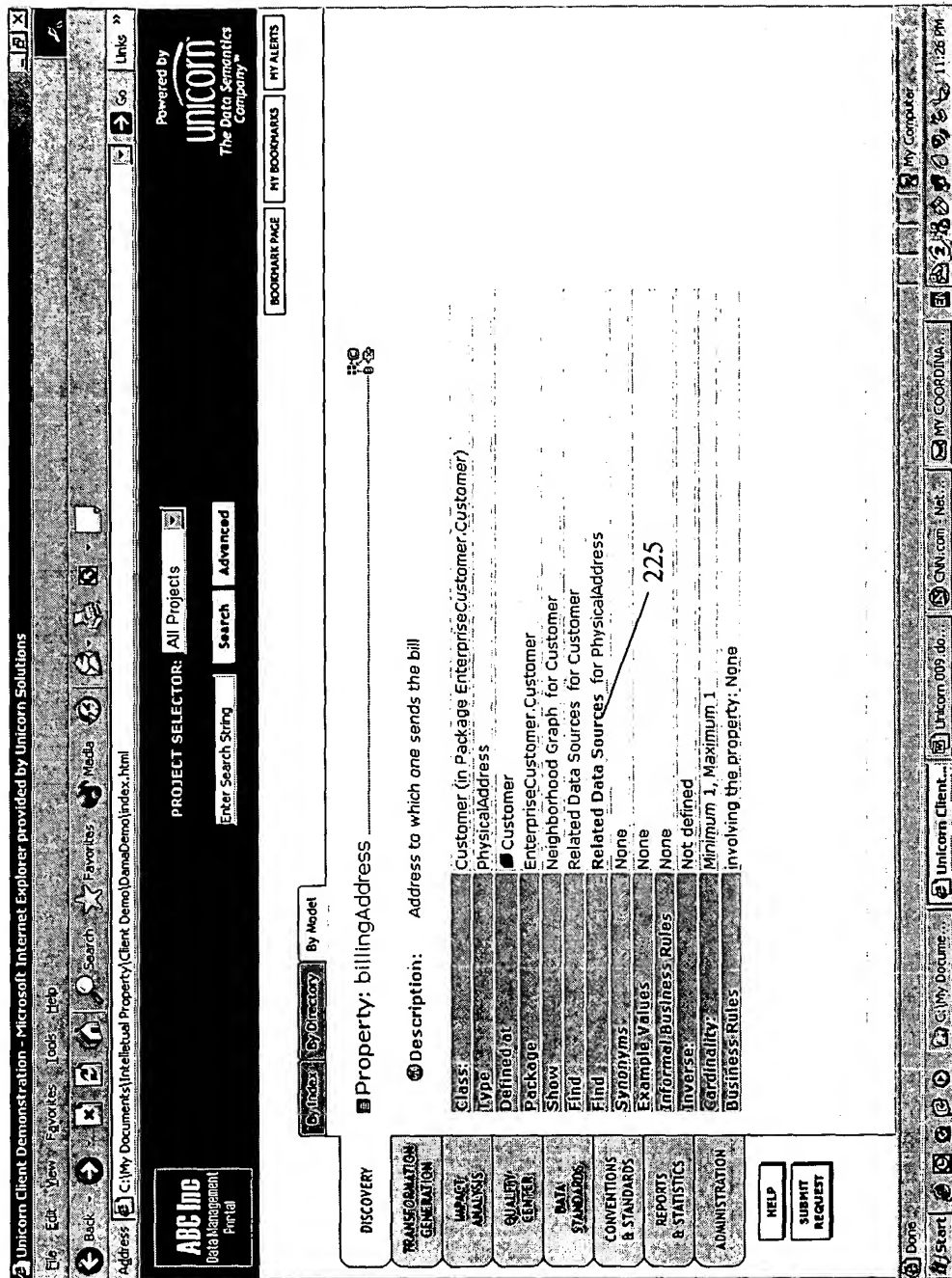


FIG. 2E

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HELP

SUBMIT REQUEST

Assets related to Physical Address

Description: Physical Address of entity or party.

CRIM Model Entity Address

RiskTracking Entity Location

Warehouse Model Entity Address

OPR0999PRD Table CUSTINF

CRM0100PRD Table ACC_PEN

customersSourceNS Entity Address

Warehouse Model Entity Address

CU38912in Group: BILAD

OR45118in Group: CLBER

PR11972in Group: BILU

PR82223in Group: AMEHAD

SupplierD2 Group: INCREC

SupplierD8 Group: INCONMG

PhysicalAddress

Show Asset Relationship Report

Build Transformation Report

Start Unicorn Client... C:\My Documents... Unicorn 009.doc... Unicorn.com - Net... My Computer

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FIG. 2F

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SUBMIT REQUEST

By Model

By Directory

Assets related to Physical Address

Description: Physical Address of entity or party.

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Show Asset Relationship Report

Build Transformation Report

CRM Model Entity Address

RiskTracking Entity Location

Warehouse Model Entity Address

OPR0999PRD Table CUSTINF

CRM0100PRD Table ACC_PEN

customersSourceNS Entity Address

Warehouse Model Entity Address

CU9281 In Group: CRIKA

CU38812 In Group: BILAD

OR45119 In Group: CLBER

PR11972 In Group: BILU

PR92223 In Group: AMEHAD

SupplierD2 Group: INCREC

SupplierD8 Group: INCONA

Physical Address

Done

Start

Unicorn Client

Unicorn D09.db

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My Computer

MY COORDINATE

11:28 PM

FIG. 2G

FIG. 2H

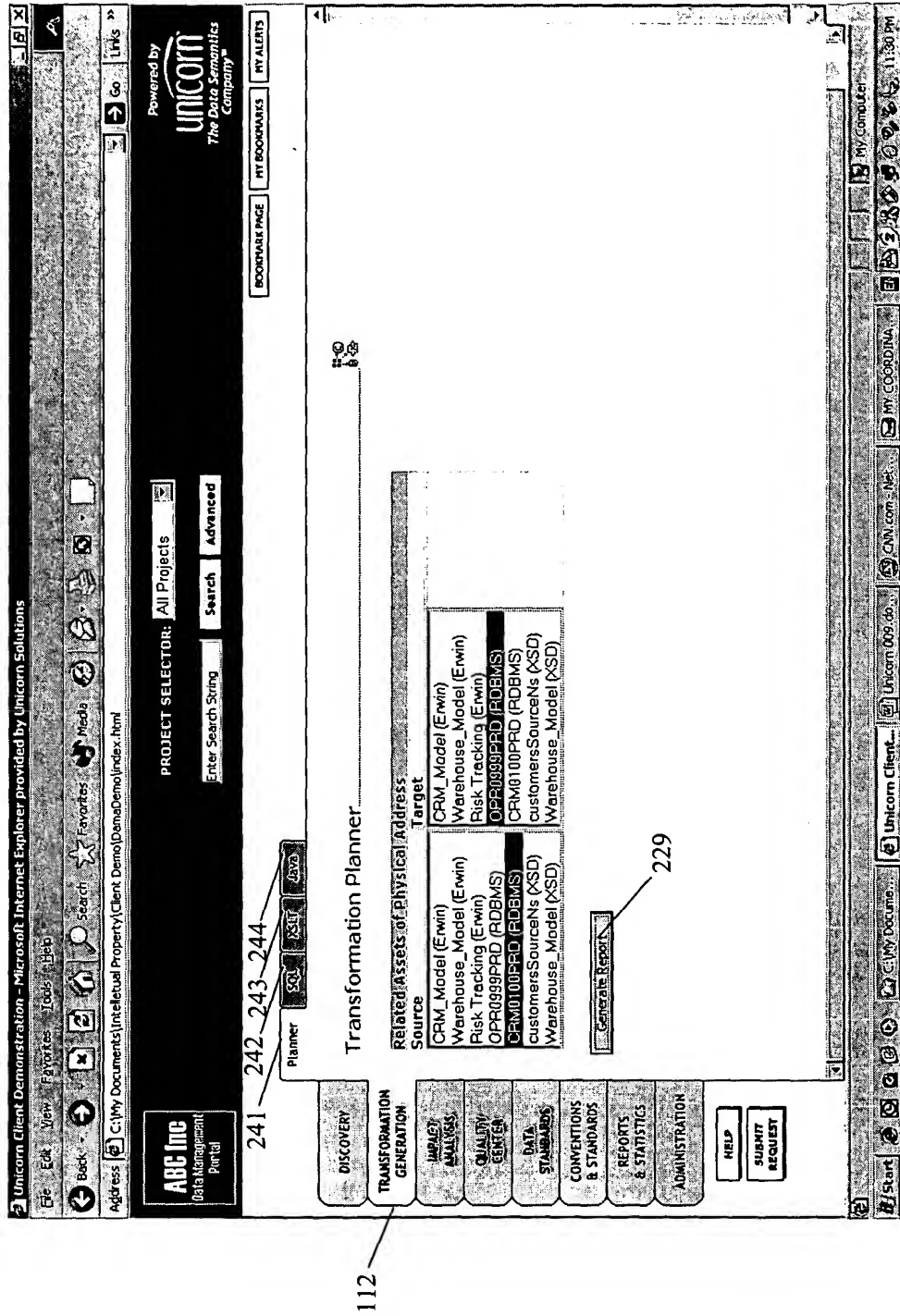


FIG. 2I

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C:\My Documents\Intellectual Property\Client Demo\DemoPages\TransformationPlanner2.htm - Microsoft Internet Explorer provided

File Edit View Favorites Tools Help

Address C:\My Documents\Intellectual Property\Client Demo\DemoPages\TransformationPlanner2.htm

Source			Target			Transformation		
Table Name	Description	Column/Foreign Key	Table Name	Description	Column	Description	Type	Target Filter
TA0100_BC		BC0100AYS	Customers		SalesBracket		decimal	Customers.SalesBracket > 4.2; (ce
		BC0100CTY			Location		char	
		BC0100ID			ID		int	
		BC0100NM			Name		char	
TA0300_ORD		code	EnterpriseOrders		tax		decimal	
		CustomerID			CustomerID		int	
		date			order date		datetime	
		items			items		int	
		OrderID			ID		int	
		total price			Total Amount		decimal	
		zone			source location		char	
TA0300_SHP		cost			shippingCost		decimal	
		date			shipping date		datetime	
		shipDest			destination		char	

251 252 253

File Edit View Favorites Tools Help

Address C:\My Documents\Intellectual Property\Client Demo\DemoPages\TransformationPlanner2.htm

Source Oriented Report [Generated Code]

Done

FIG. 2J

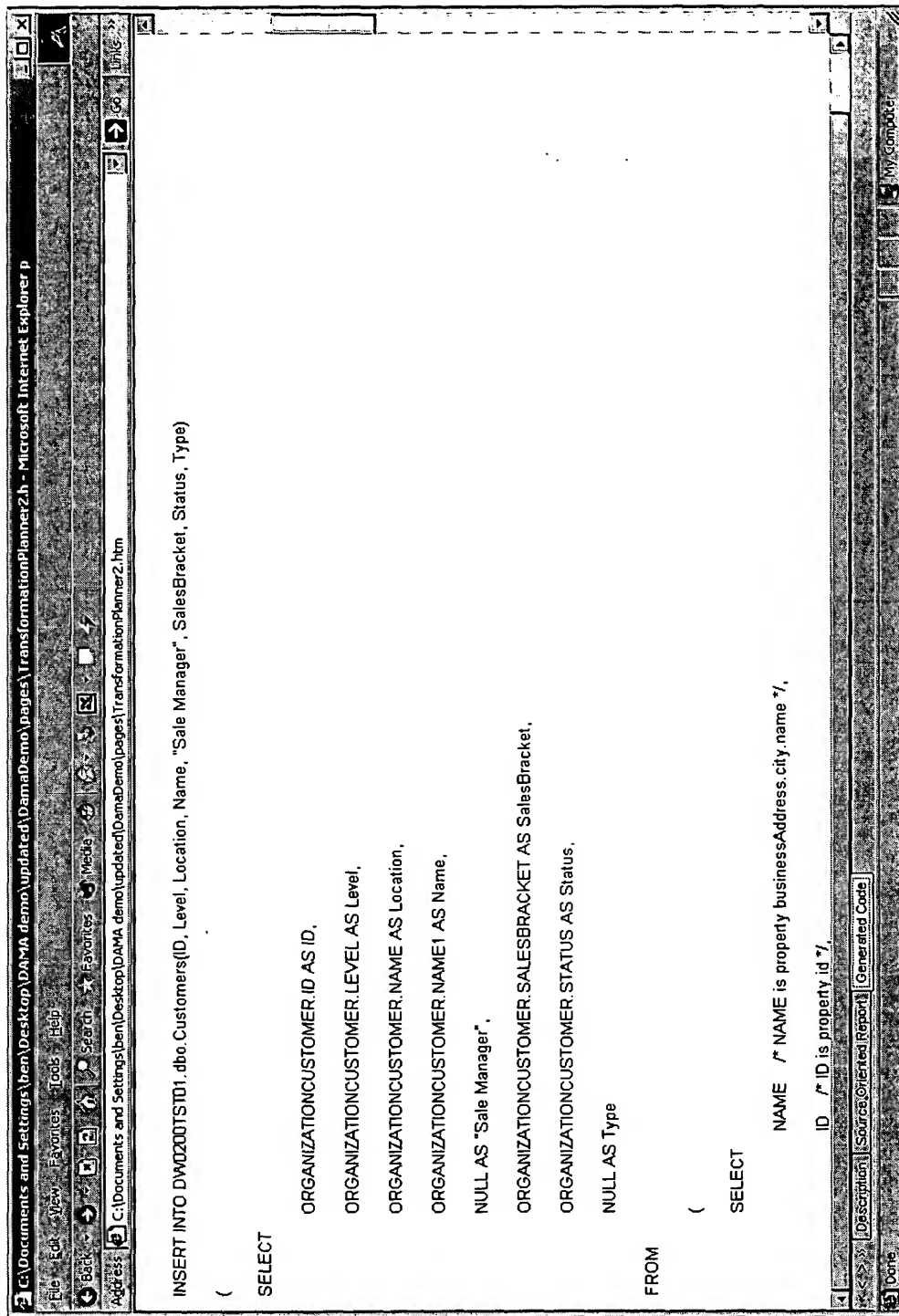


FIG. 2K

FIG. 3A

Unicorn Client Demonstration - Microsoft Internet Explorer provided by Unicorn Solutions

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What If? Recent Changes Impacted Concepts

Impact Analysis: What If?

RDBMS Schema Name: CRM0100PRD [Selected Impact Scenario: Modify / Update Asset]

Description: Siebel Customer Relationship Management System for storing all customer details across all divisions of the Enterprise. This will be a complete customer view in 2004. Takes XML data from SFA application in daily EDI exchanges.

Please select modified or updated version of the asset to upload.

332 Browse Operate Report 334

Descriptors:

Asset Owner Contact Information	David Clarkson (Email), Central Data Management, Fairlight Campus, Extension 204. Full Contact Details
Other Domain Experts Contact Information	None
Data Quality Level	Low - Data Profile to Start
Asset Status	Under Quality Review (category 3b)
Related Web Service	GetCredit; GetCreditRating
Related Data Model	None
Applications that write to this Asset	OR45119fy ; OR90756bb ; SU48902de ; Lawson PMS
Applications that read from this Asset	Great Plains ; OR45119fy ; OR90756bb ; SU48902de ; Lawson PMS; Great Plains
Security Information	CDM restricted via LDAP

Tables in this Schema:

DISCOVERY

TRANSFORMATION GENERATION

IMPACT ANALYSIS

QUALITY CENTER

DATA STANDARDS

CONVENTIONS & STANDARDS

REPORTS & STATISTICS

ADMINISTRATION

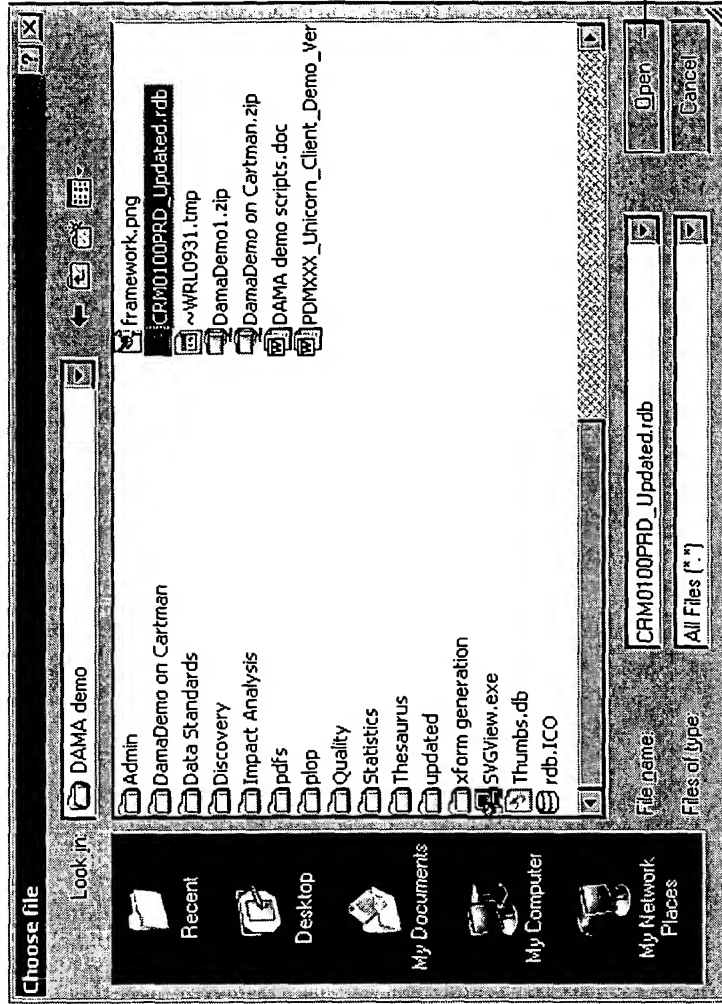
HELP

SUBMIT REQUEST

My Computer

FIG. 3B

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335

FIG. 3C

FIG. 3D

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What If? Recent Changes Impact Concepts

Submit Request

DISCOVERY	TRANSFORMATION GENERATION	IMPACT ANALYSIS	QUALITY CENTER	DATA STANDARDS	CONVENTIONS & STANDARDS	REPORTS & STATISTICS	ADMINISTRATION
-----------	---------------------------	-----------------	----------------	----------------	-------------------------	----------------------	----------------

HELP
SUBMIT REQUEST

To: Data Management Group

From: Chuck Lewis

Group: Application Development Support

Extension: 2318

Email: chuck.lewis@mail...

Subject: DAM compliance for CRM0100PRD

Requested Action: <Please update the attached asset to replace CRM0100PRD>

Attachment: CRM0100PRD_v012.rdb

Comments:

Submit Request Submit

Done Start Stop My Computer My COORDINATOR Net... Unicorn Client... Unicorn 009.doc... C:\My Documents

11:37 PM

150

336

FIG. 3E

401

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411 412 413 414 415

Business Rule Validator: Index [a->z]

Show the following business rule types:
☐ Enumeration ☒ Conversion ☐ Look Up Table

Name	Class	Type	Description
Central Insurance Rating	InsuranceRating	Conversion	Converts insurance parameters to a ratings according to OIE.
Currency Converter	Currency	Conversion	ISO conversion using line feeds.
Legacy To New Quality Codes	Quality	Conversion	Updates to 2001 rework of QST codes for product throughput.
LoyaltyLevelCalc	LoyaltyLevel	Conversion	Calculate Customer Loyalty Level
Net Gain On Unit Sales	TaxRates	Conversion	Removes sales costs and taxes to reach IRU net profit.
Possession Codes	Location	Conversion	US territories conversion
Price Adjuster Cat Local Tax	Pricing	Conversion	Uses US state code local tax table to calculate price feeds to sales department.
Quantity Units Converter	Shipping	Conversion	ISO metric / imperial conversion for weights.
Remote Description Connection	Connection	Conversion	Converts offline adaptor feeds to current online

DISCOVERY
TRANSFORMATION/GENERATION
MARKET ANALYSIS
QUALITY CENTER
DATA STANDARDS
CONVENTIONS & STANDARDS
REPORTS & STATISTICS
ADMINISTRATION

HELP
SUBMIT REQUEST

Done

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FIG. 4A

FIG. 4B

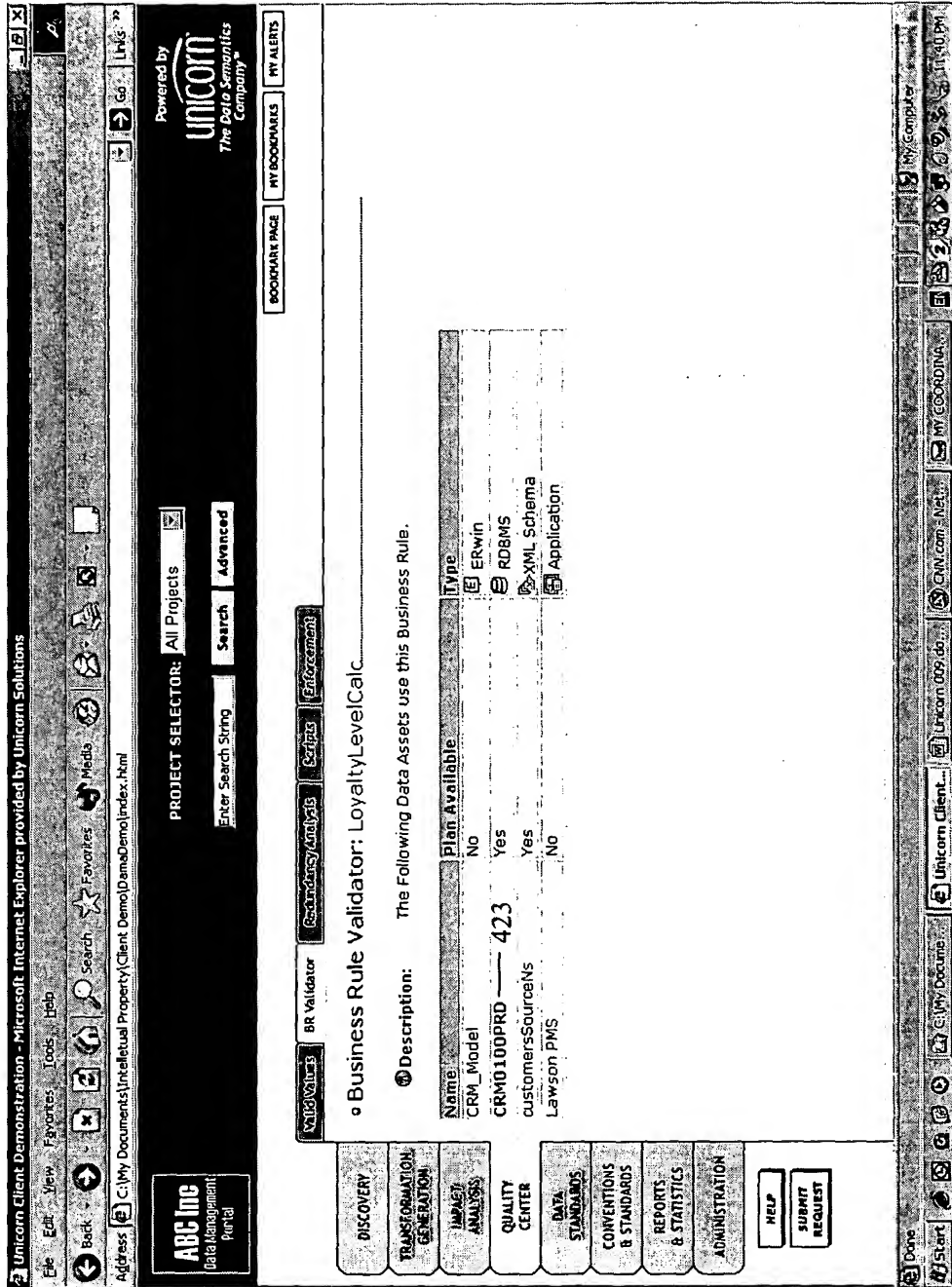


FIG. 4C

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Validation Procedure: CRM100PRD

Print Friendly E-mail Report Save Report

Validation Values BR Validator Background Analysis Scripts Enforcement

DISCOVERY
TRANSFORMATION
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IMPACT
ANALYSIS
QUALITY
CENTER
DATA
STANDARDS
CONVENTIONS
& STANDARDS
REPORTS
& STATISTICS
ADMINISTRATION

HELP
SUBMIT
REQUEST

Use these steps to assess whether the asset data conforms to the LoyaltyLevelCalc business rule logic.

Step Description Instructions

- 1 Arrange data instance set
- 2 Calculate required value for business rule
- 3 Validate rule
- 4 Output results to external file or database view

Join table 'Customer' with table 'Record' through the foreign key 'CustID'
Subtract value in column 'Customer.JanDecTotDisc' from column
'Customer.JanDecTotSpand'
Use LoyaltyLevelCalc formula against results of stage 2 above and check against
column Customer.Cat
Rows : as per CustID

Columns:
a) Customer.Cat
b) <results of stage 2>
c) Boolean: true / false

Generate SQL script for CRM100PRD to populate a new table with validation results: Generate

Done Start My Computer My Documents My Recent Documents My Favorites My Computer My Documents My Recent Documents My Favorites

FIG. 4D

501

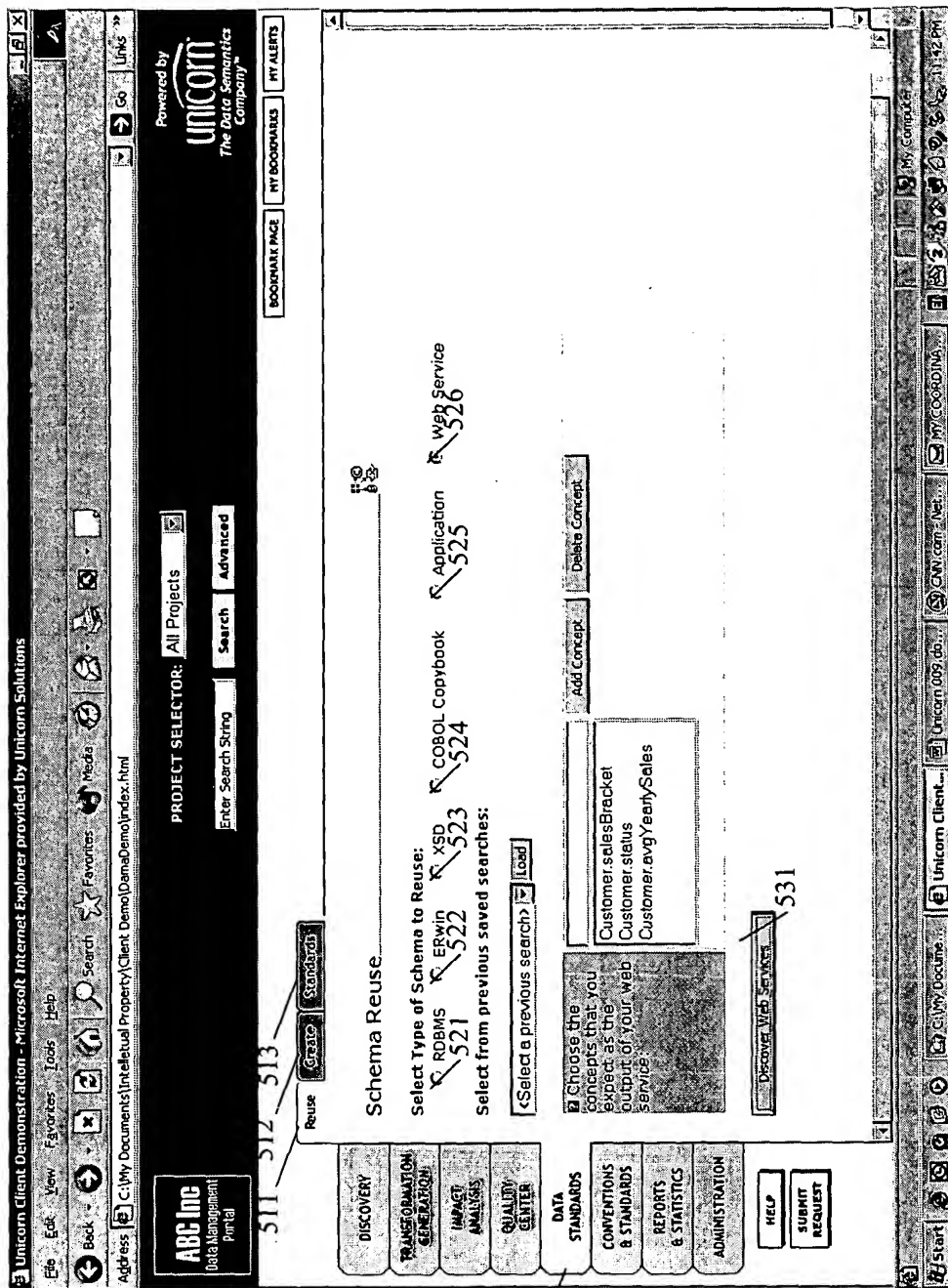


FIG. 5A

FIG. 5B

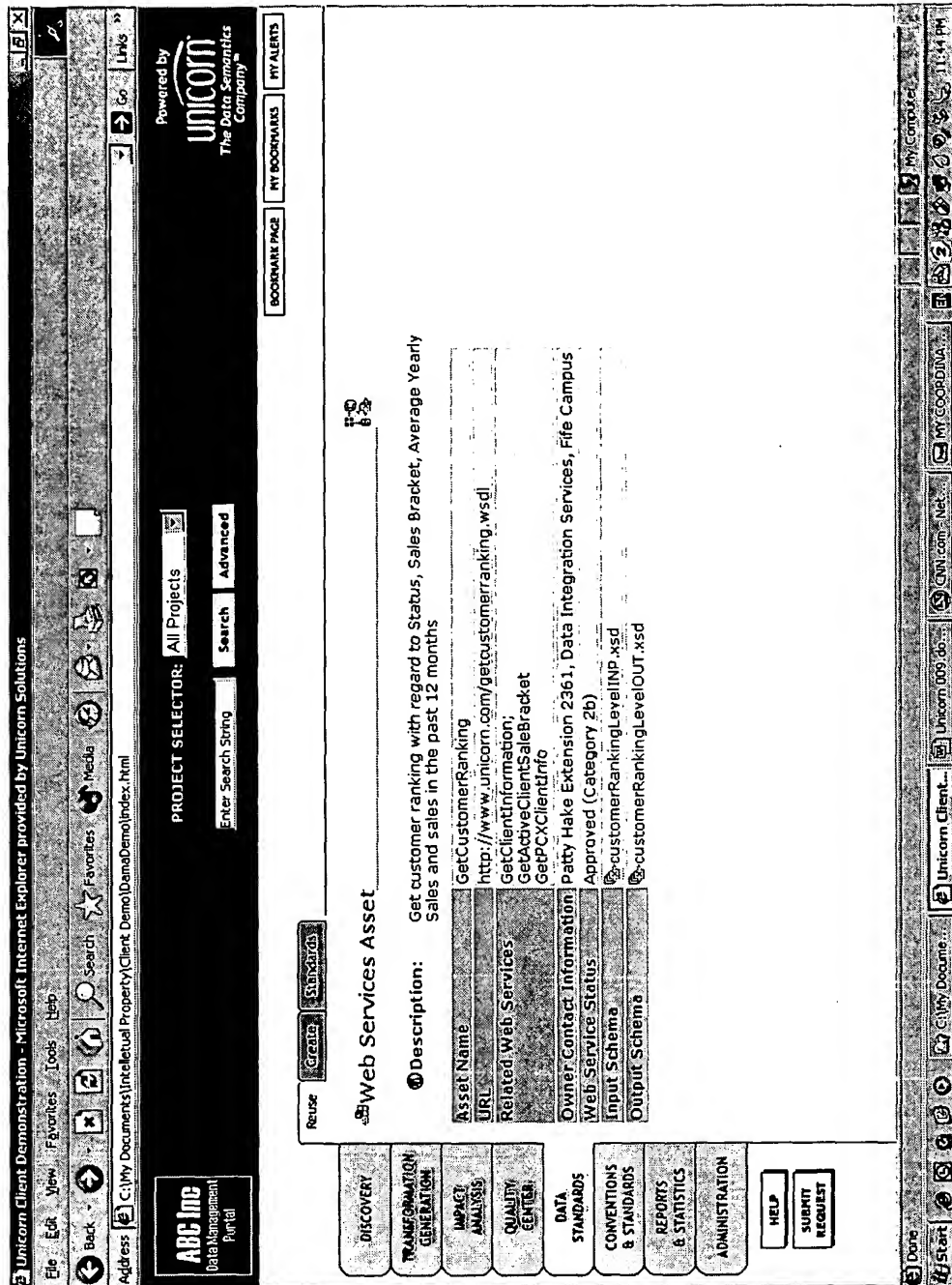


FIG. 5C

FIG. 6

FIG. 7

801

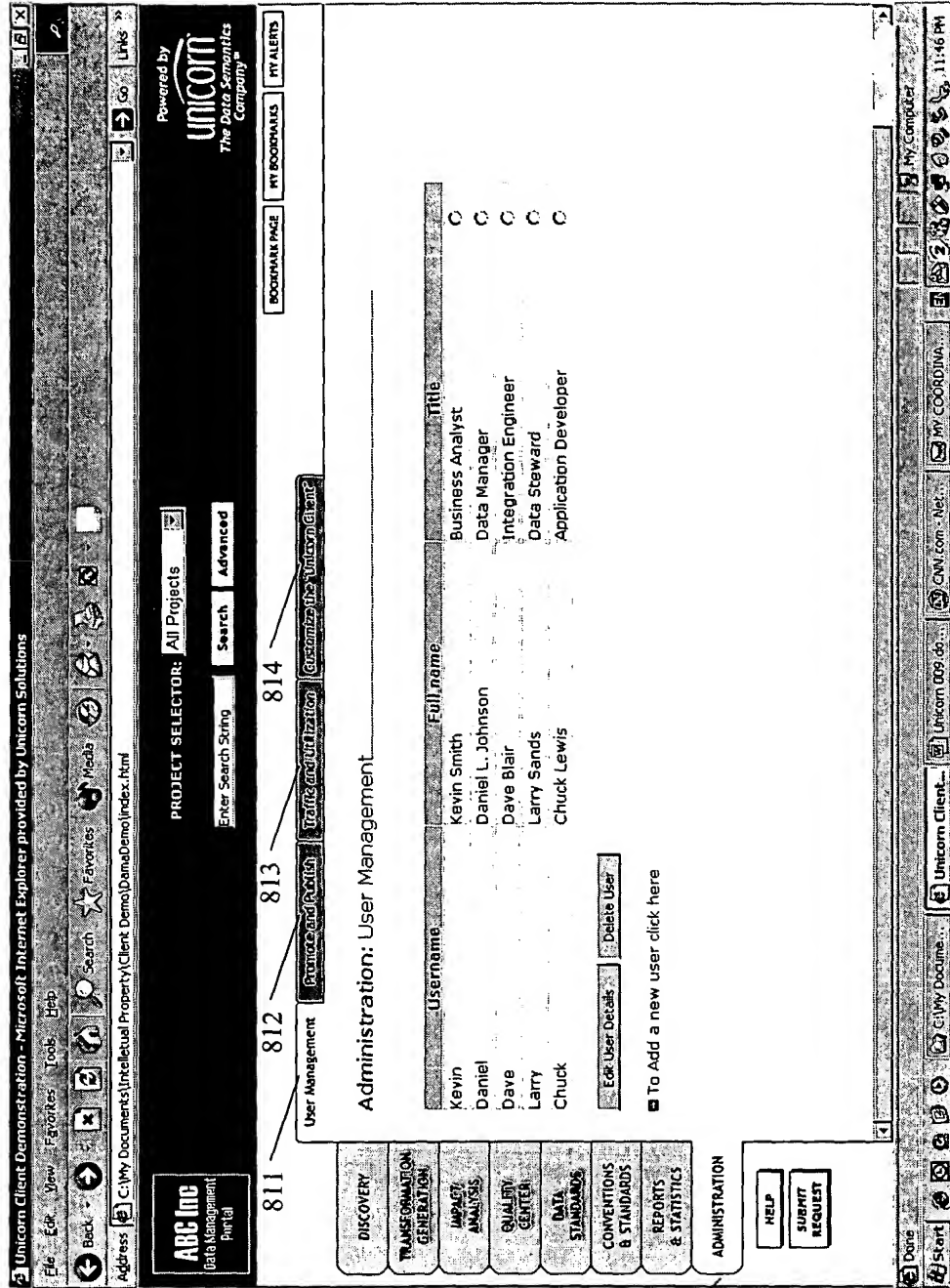


FIG. 8

901

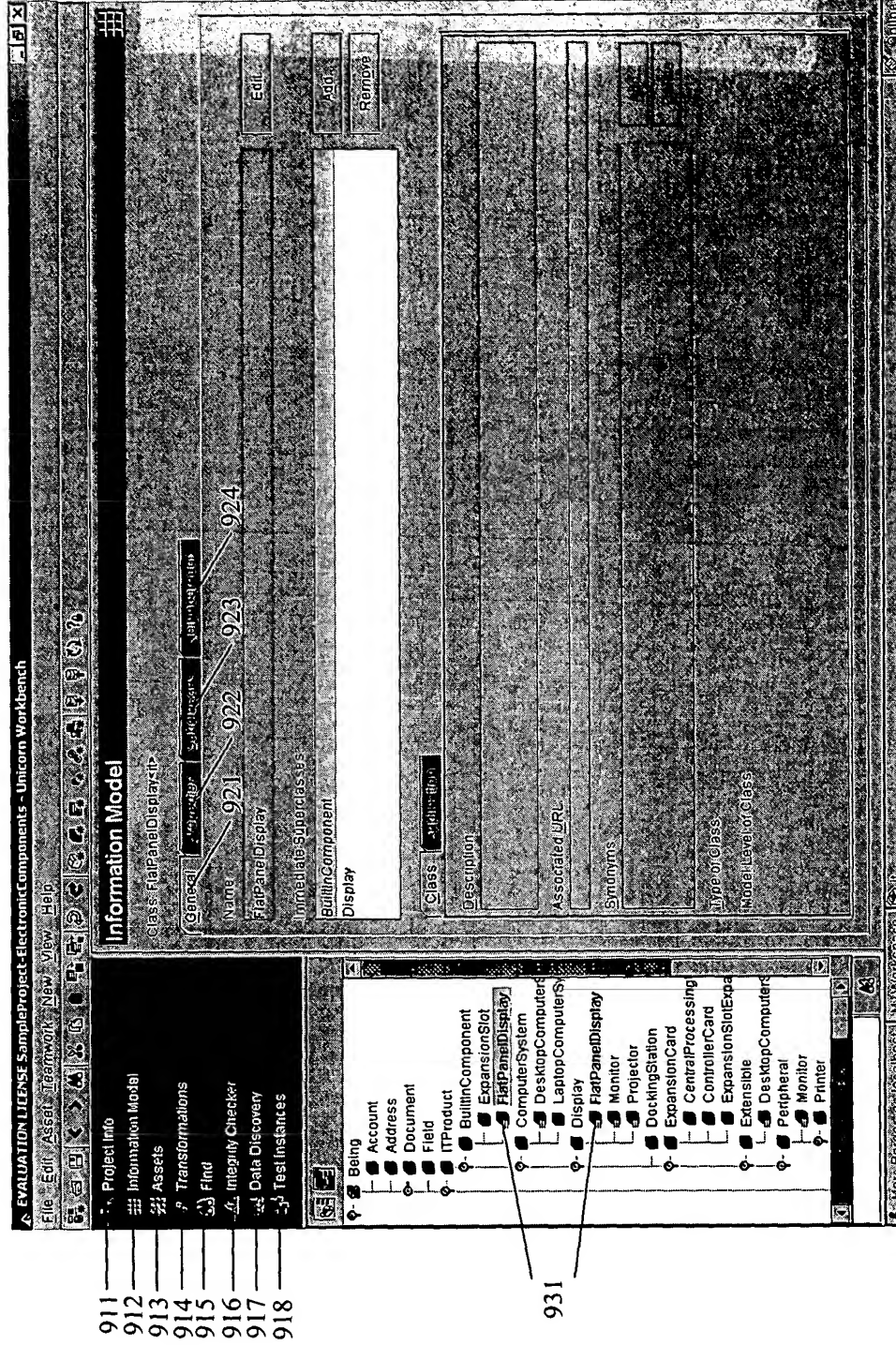


FIG. 9A

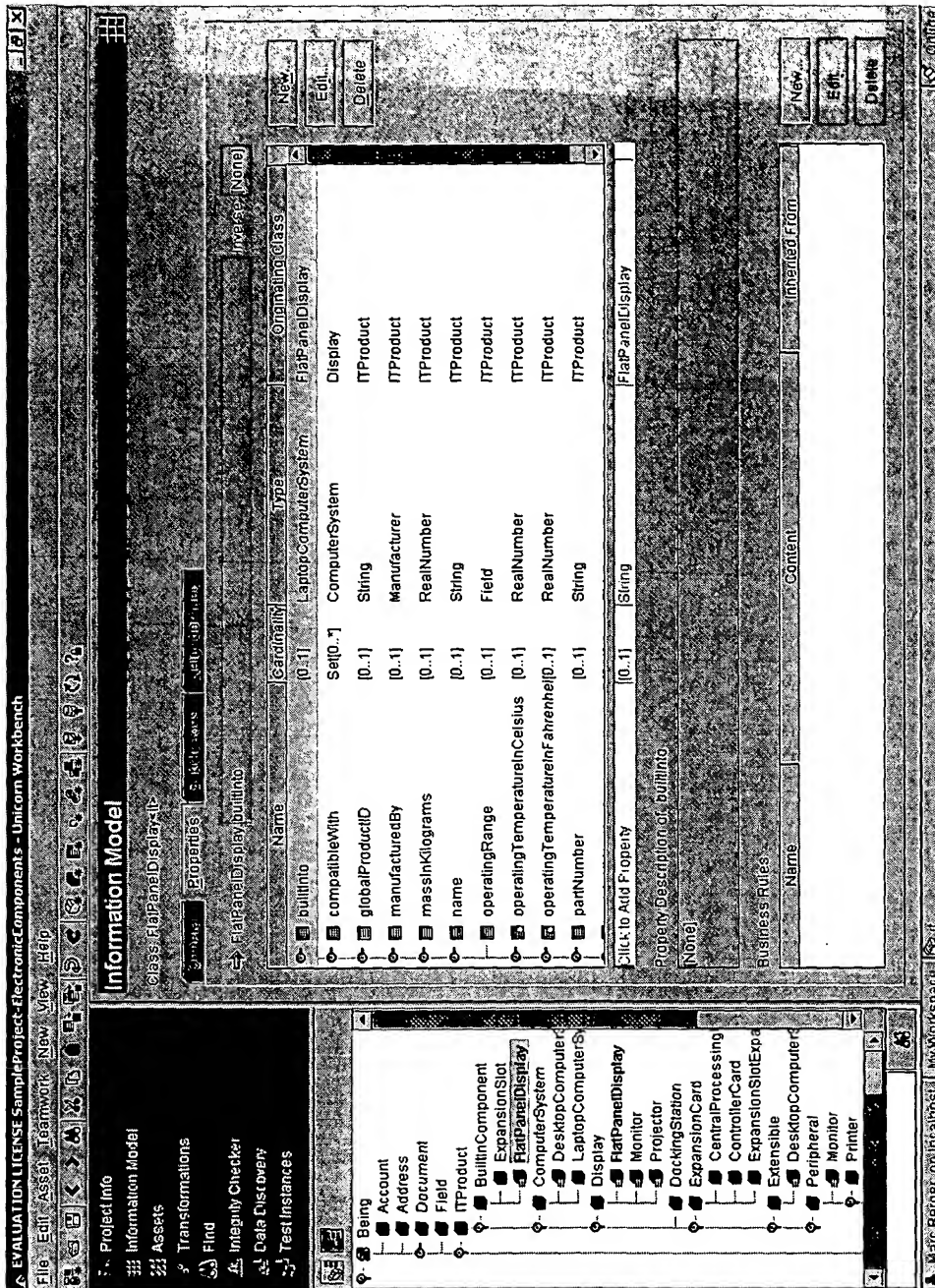


FIG. 9B

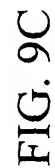


FIG. 9C

1001

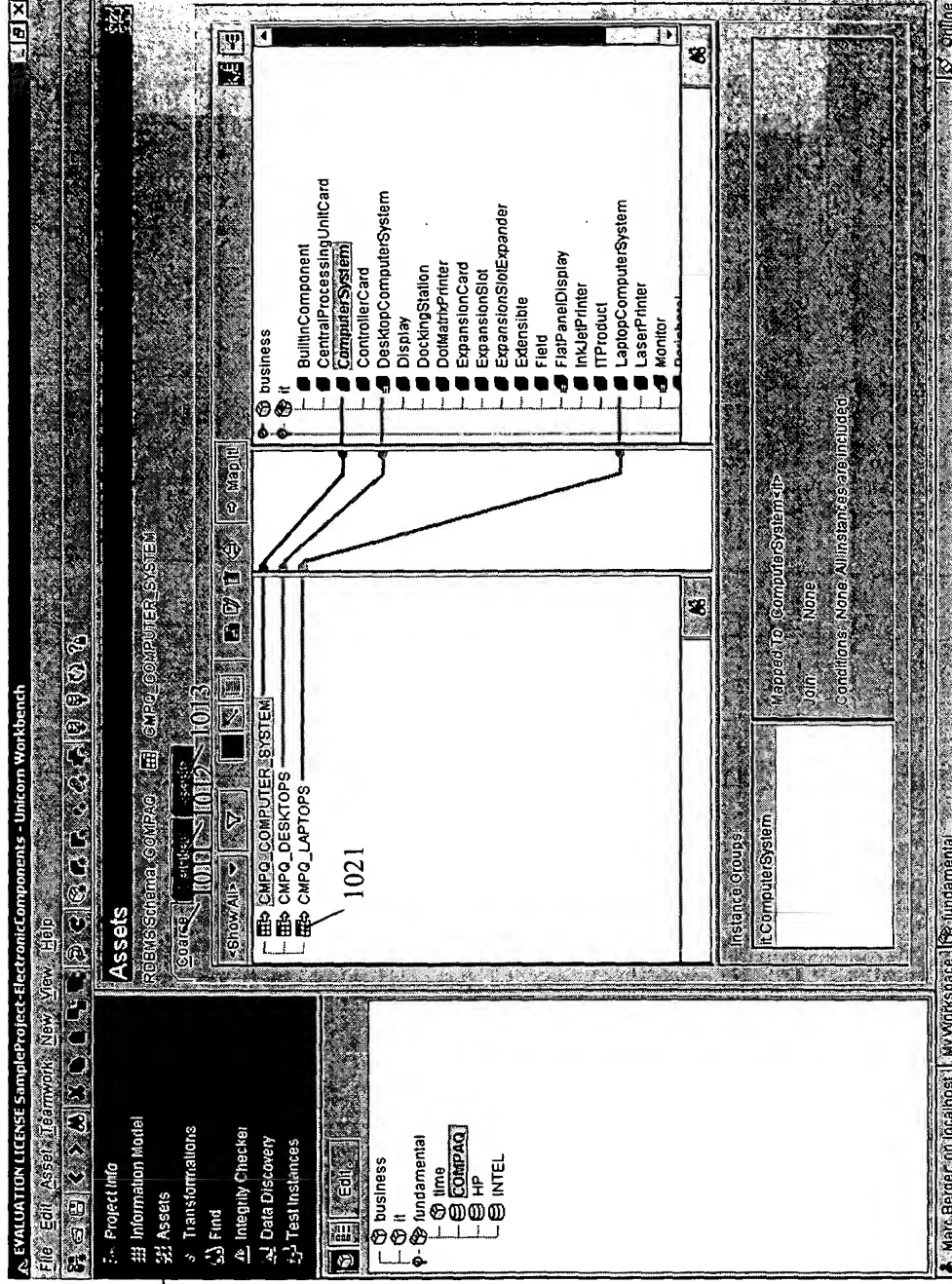


FIG. 10A

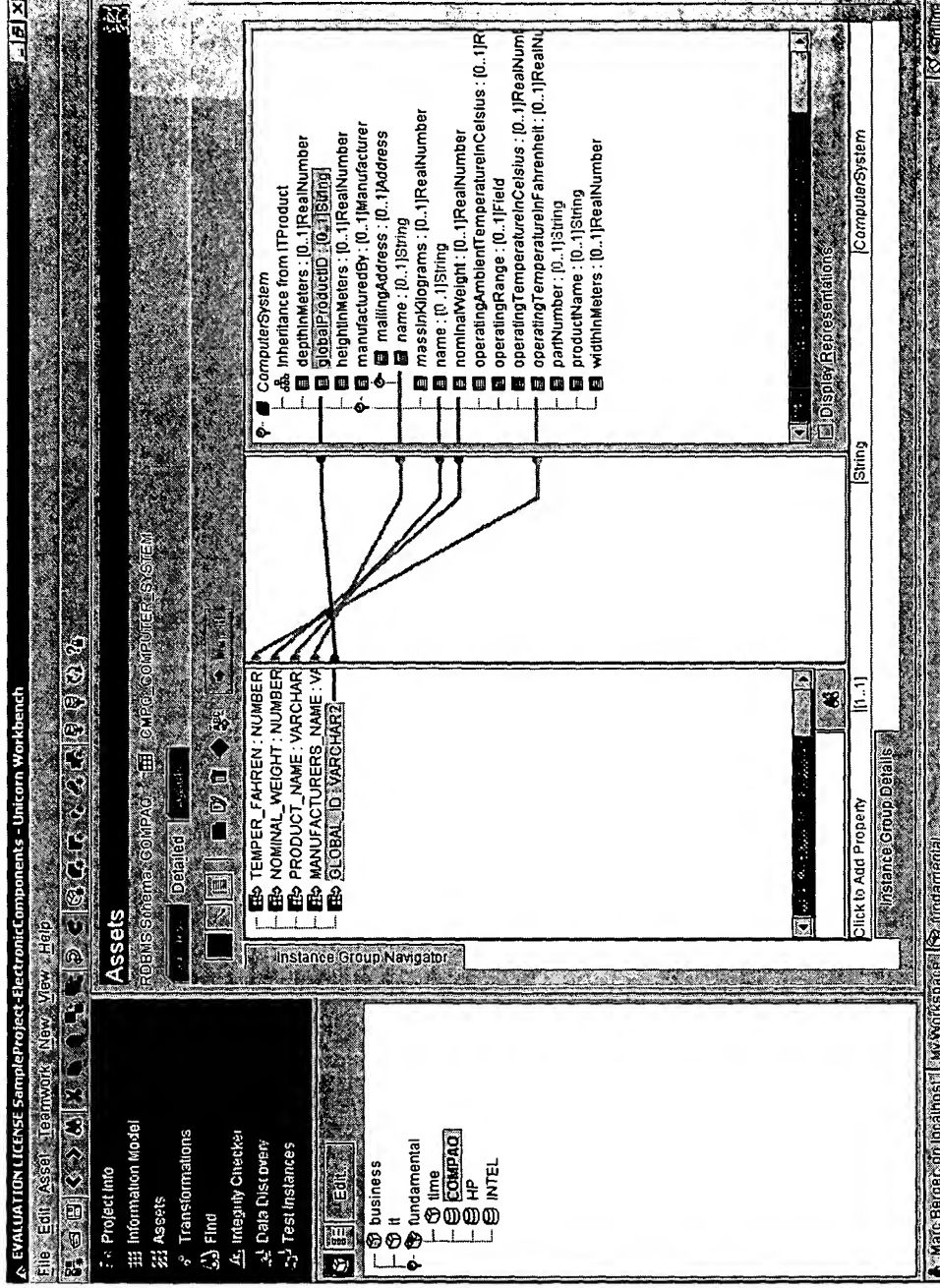


FIG. 10B

EVALUATION LICENSE SampleProject-ElectronicComponents - Unicorn Workbench

File Edit Asset Teamwork New View Help

Project Info Information Model Assets Transformations Find Integrity Checker Data Discovery Test Instances

Being Account Address Document Field ITPProduct BuiltInComponent ComputerSystem DesktopComputerSystem LaptopComputerSystem Display DockingStation ExpansionCard Extensibles Peripheral LegalEntity Datum Instant RecurringInstantTimePeriod TimeMeasure TimeZone

Data Discovery

Data Discovery for Extensibles

Name	Cardinality	Type	Originating Class
Extensibles	1111		
globalProductID	[0..1]	String<fundamental>	ITProduct
manufacturedBy	[0..1]	Manufacturer<business>	ITProduct
massInKilograms	[0..1]	RealNumber<fundamental>	ITProduct
name	[0..1]	String<fundamental>	ITProduct
operatingRange	[0..1]	Field<it>	ITProduct
operatingTemperature[0..1]	[0..1]	RealNumber<fundamental>	ITProduct
operationalTemperature[0..1]	[0..1]	RealNumber<fundamental>	ITProduct

Class of Property Description: Extensible

Mapped External Assets: All

Asset Name	Mapping Concept	Class or Property	Instance Group
INTEL	INTEL_RNIC024	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024	DesktopComputerSystem	ITDesktopComputerSystem
COMPAQ	COMPAQ_DESKTOP9	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024_RNIP200	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024_RNIP201	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024_RNIP300	DesktopComputerSystem	ITDesktopComputerSystem
COMPAQ	COMPAQ_DESKTOPS_NUM10RV	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024_RNIP301	DesktopComputerSystem	ITDesktopComputerSystem
INTEL	INTEL_RNIC024_RNIP301	DesktopComputerSystem	ITDesktopComputerSystem
HP	HP_RNIC024_XIE219	DesktopComputerSystem	ITDesktopComputerSystem

Marc Babin on 10/10/2001 My Workspace

FIG. 11A

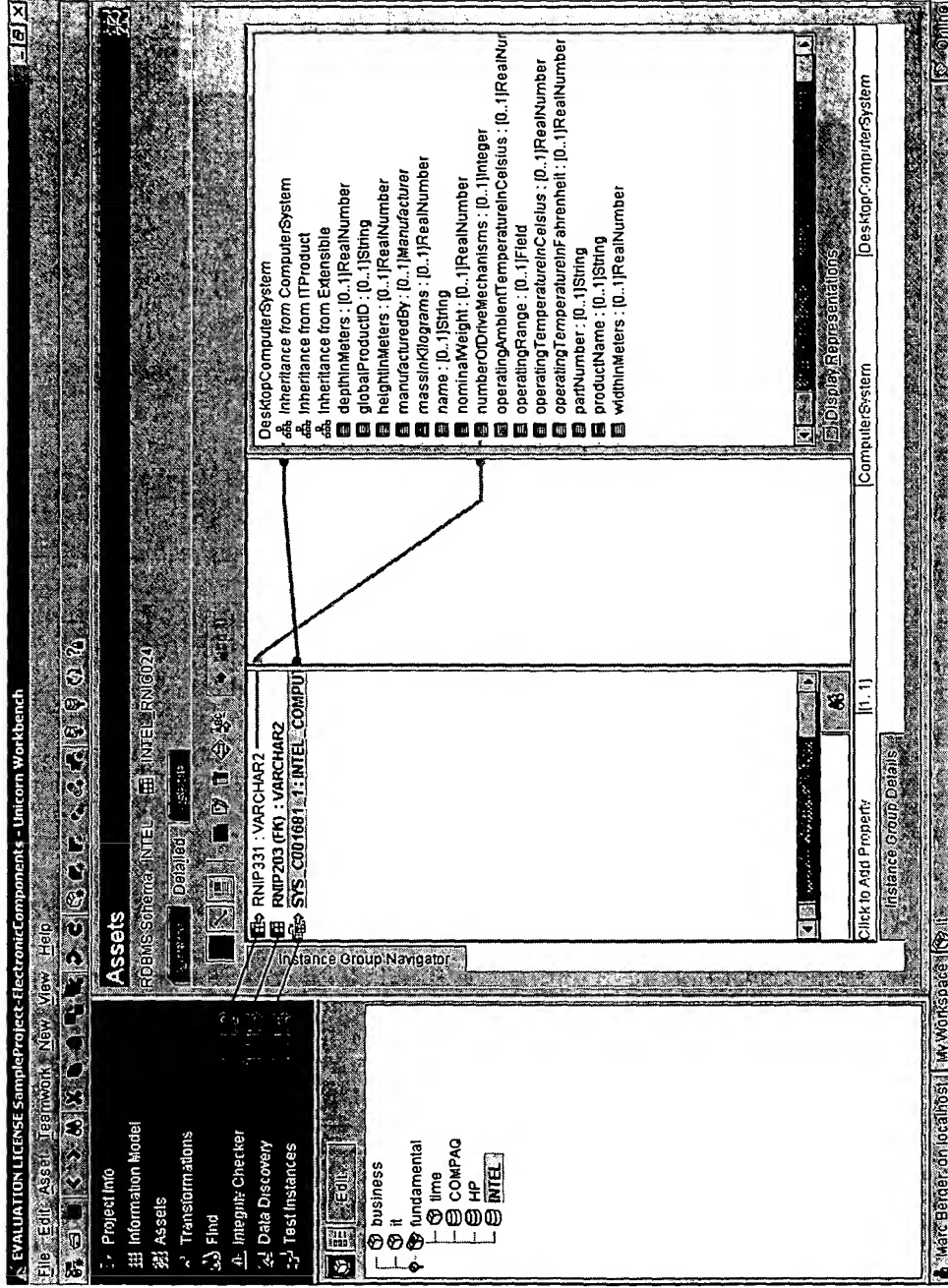
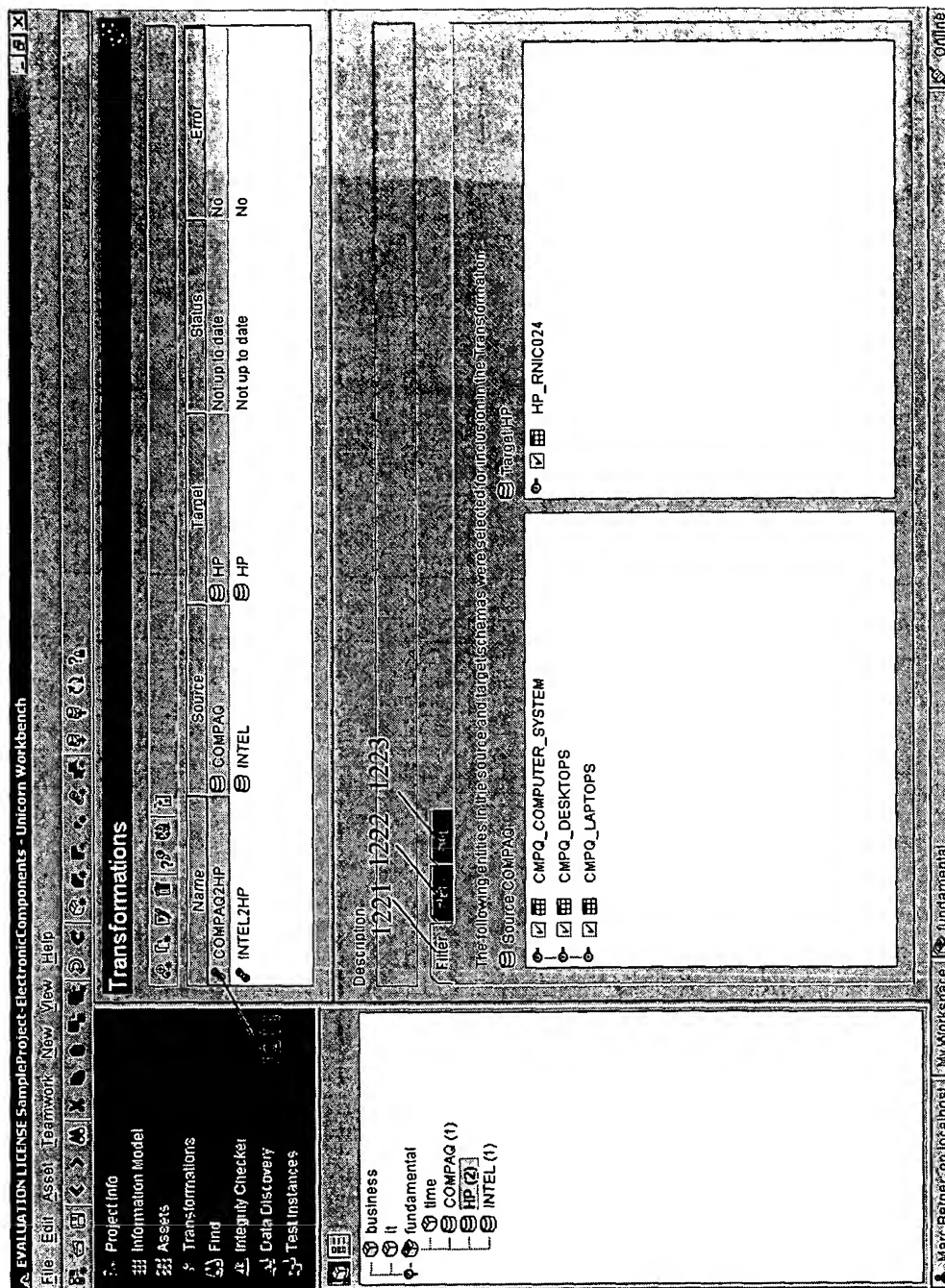


FIG. 11B

1201



914

FIG. 12A

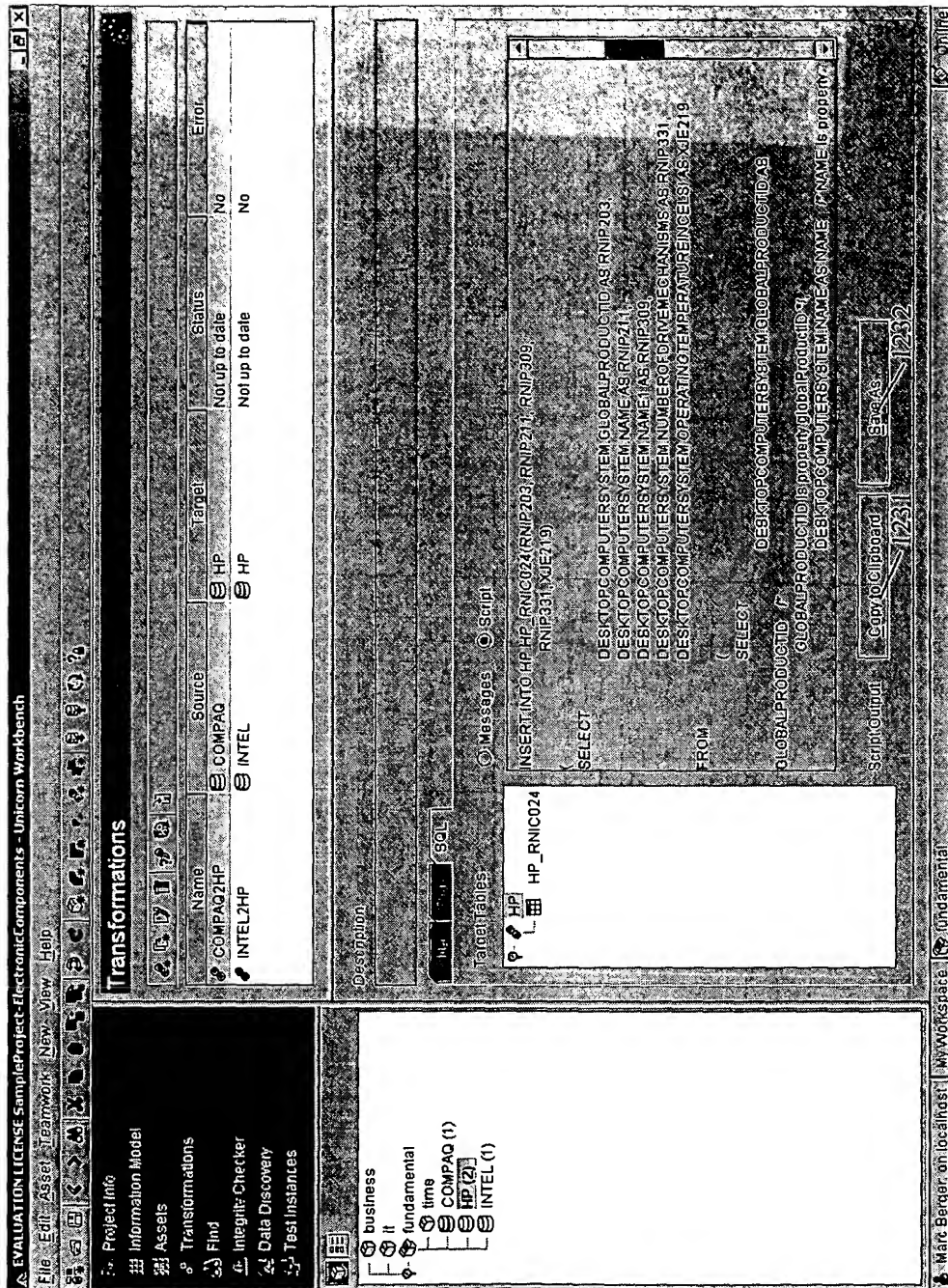


FIG. 12B

1301

Project Info

Information Model

Assets

Transformations

Find

Integrity Checker

Data Discovery

Test Instances

EVALUATION LICENSE SampleProject-Enterprise Customers - Unicorn Workbench

File Edit Asset Framework New View Help

Test Instances of Class: OrderItem

Displayed As: quantity

ID	Value	OrderItem	Class
495	120	OrderItem	
496	87	OrderItem	

New

Edit

Delete

Instance Data: User Defined Functions are not supported in Test Instances

Property	Type	Value
Item	0..1 (Product)	9223 37203654777
Line Total	0..1 (RealNumber)	
Order	0..1 (Order)	
PriceScheme	0..1 (PriceScheme)	<99> N/A
Quantity	0..1 (Integer)	120

Validation Error(s)

Instance	Class	Details
Party	Party	A value for property name is required. Instances <29> and <35> are missing values for this property.
Party	Party	A value for property primaryName is required. Instances <29> and <35> are missing values for this property.
Role	Role	A value for property context is required. Instances <29> and <35> are missing values for this property.
Role	Role	A value for property party is required. Instances <29> and <35> are missing values for this property.
Interaction	Interaction	A value for property participants is required. Instances <49> <10> <41> <42> <43> <44> <50> <54> <56> and <90> are missing values for this property.

Validate

Marc Brier on localhost

My Workspace

Enterprise Library Trade

Online

918

1311

FIG. 13

1401

Project Info

Information Model

Assets

Transformations

Find

Integrity Checker

Data Discovery

Test Instances

EVALUATION LICENSE SampleProject-Enterprise Customers - Unicorn Workbench

File Edit Asset Teamwork New View Help

Project Info: SampleProject-Enterprise Customers

Summary Report for SampleProject-Enterprise Customers

Assets	Total Number of Assets	16
	Percentage of Assets with mapped elements	31 %
packages	Total Number of Packages	11
	Percentage of non-empty packages	91 %

Copy to Clipboard

Send to Browser

Maric Beldar on local host Workspace Online

FIG. 14

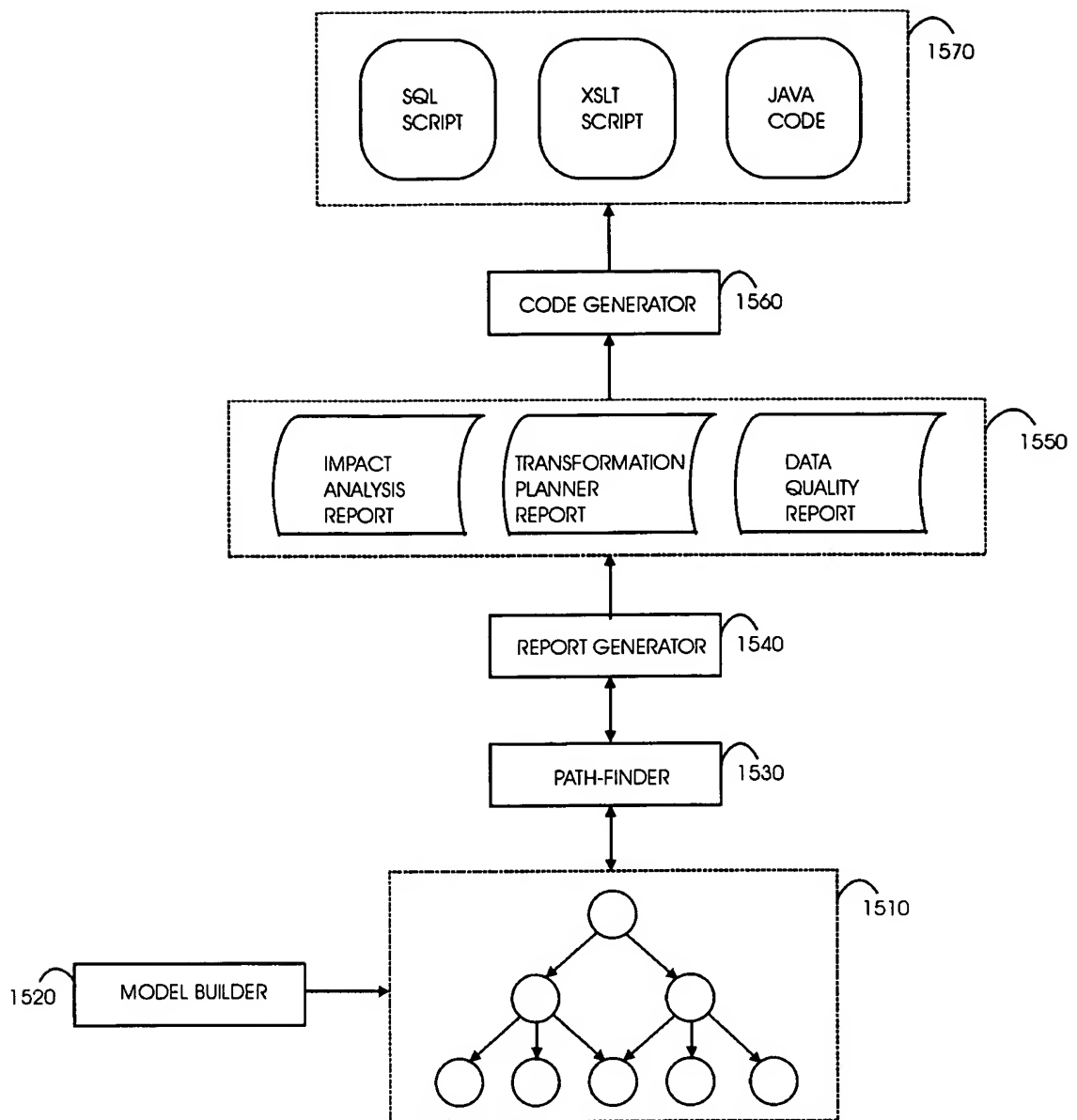


FIG. 15